Editor's note: Reconsideration granted, decision reaffirmed by Order dated March 16, 1993 at 124 IBLA 287A th I below.

RED THUNDER, INC., ET AL.

IBLA 91-186, 91-220, 91-221

Decided November 3, 1992

Consolidated appeals from decision of the Lewiston, Montana, District Office, Bureau of Land Management, approving amendment to mine plan of operations MTM-77779.

Affirmed.

1. Environmental Quality: Environmental Statements--Mining Claims: Plan of Operations

BLM's decision to approve a mining plan amendment (1) to allow cyanide leaching operations at a gold mine to proceed and (2) to allow leach pads to be abandoned, and its accompanying FONSI will be affirmed where the record (including an extensive report demonstrating that abandonment of leach pads will not result in discharge of harmful levels of cyanide into the environment) reveals no unnecessary or undue degradation of the lands, and BLM's decision is not convincingly challenged on appeal.

The Board will affirm a FONSI with respect to a proposed action if the record establishes that a careful review of environmental problems has been made, all relevant environmental concerns have been identified, and the final determination that the impact is insignificant is reasonable in light of the environmental analysis. When mitigating measures are imposed to reduce impacts of the environmental effects of the proposed action that might otherwise be significant, a FONSI is properly affirmed.

2. Environmental Quality: Environmental Statements--Mining Claims: Environment--National Environmental Policy Act of 1969: Finding of No Significant Impact

"Cumulative impact" is the impact on the environment that results from the incremental impact of an action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or persons undertakes such other actions. An EA examining the cyanide retention

qualities of a heap leach operation need not include a discussion of an exploration plan that, during the pendency of the appeal, is withdrawn by the operator.

3. American Indian Religious Freedom Act: Generally--National Historic Preservation Act: Applicability--Indians: Generally--Mining Claims: Plan of Operations

Where the Montana State Historic Preservation Office is aware that an area may possess traditional cultural values, owing to the presence of Native American fasting and vision questing sites there, but nevertheless concludes that no properties eligible for inclusion on the National Register of Historic Places were identified in the area, BLM is not required to comply with sec. 106 of the National Historic Preservation Act. Rather, it is adequate for BLM to address effects of gold mining on cultural values through its compliance with the American Indian Religious Freedom Act. BLM complies with the latter act where it actively solicits the opinions of Native Americans, both individually and in tribal groups, and considers reasonable mitigating measures.

APPEARANCES: Donald R. Marble, Esq., Chester, Montana, and Paul Zogg, Esq., Boulder, Colorado, for appellant Red Thunder, Inc.; Virgil F. McConnell, Sr., <u>pro se</u>; Jim Vogel, Esq., Harlem, Montana, for Fort Belknap Community Council; Karen Dunnigan, Esq., Office of the Field Solicitor, U.S. Department of the Interior, Billings, Montana, for the Bureau of Land Management; Alan L. Joscelyn, Esq., Helena, Montana, and Patrick Garver, Esq., Salt Lake City, Utah, for Zortman Mining, Inc.; Tommy H. Butler, Esq., Special Assistant Attorney General, Helena, Montana, for the Department of State Lands, State of Montana.

OPINION BY ADMINISTRATIVE JUDGE HUGHES

Red Thunder, Inc. (Red Thunder), Virgil F. McConnell, Sr., and Fort Belknap Community Council (FBCC) have appealed from a February 28, 1991, decision of the Lewiston (Montana) District Office, Bureau of Land Management (BLM), approving ore loading and leaching operations under an amendment to Federal Plan of Operations MTM-77779 of Zortman Mining, Inc. (Zortman). Approval of the amendment, known as Amendment No. 10, authorized the expansion of the Landusky Mine in Phillips County, Montana, including construction and operation of the Sullivan Park heap leach pad. Because they raise similar issues, these appeals are consolidated. 1/

^{1/} Three appeals have been docketed, styled as follows: Red Thunder, Inc., IBLA 91-186; Virgil F. McConnell, Sr., IBLA 91-220; and Fort Belknap Community Council, IBLA 91-221. Both McConnell and FBCC have adopted the statement of reasons filed on behalf of Red Thunder. We shall accordingly refer collectively to Red Thunder, McConnell, and FBCC as "appellants."

IBLA 91-186, 91-220, 91-221

Both Zortman and the State of Montana, Department of State Lands (DSL), have filed documents in support of BLM's decision. Zortman and DSL are recognized as respondents in this proceeding.

This is the second time this matter has been before us. On December 19, 1990, we issued a decision modifying decision approving Amendment No. 10. We required BLM to re-examine

whether to prepare an environmental impact statement (EIS) for the

plan amendment following completion of a study of the amount of cyanide retained in heaps on leach pads at the Landusk leaching. 2/ Red Thunder, Inc., 117 IBLA 167, 184-88, 97 I.D. 263,

273-75 (1990). 3/ That study had been ordered by BLM at the time it approved the plan amendment. Specifically, BLM of examine the amount of cyanide retained in the heaps on abandoned

leach pads at the Landusky site. 4/ We perceived that BLM's requiring such study implied there was a substantial question severity of the cumulative impacts of leaving cyanide solution in

the spent ore on the abandoned pads. Accordingly, we directed BLM to prepare further environmental review documents Part 1500 (1989) and Departmental regulations, when the study of cyanide retention in the abandoned heaps was completed. at 188, 97 I.D. at 274-75.

The Cyanide Retention Study and Report

As discussed in <u>Red Thunder, Inc.</u>, <u>supra</u> at 185-88, 97 I.D. at 273-74, BLM's concern was that pockets of heap m with elevated concentrations of cyanide solution might remain in the heaps after processing. Blind-offs would occur if the through the heaps was blocked by fine material or material that had been compacted as it was placed on the heap, such as was further concerned that any elevated concentrations of cyanide in blind-offs might

6-month period, including a snowmelt and spring runoff period. Red Thunder, Inc., supra at 185, 97 I.D. at 273.

^{2/} Amendment No. 10 included a comprehensive mine reclamation plan which applies to all ore heaps at the Landusky neutralization of <u>all</u> spent ore heaps to continue until the leachate discharge of less than 0.22 mg/liter Weak Acid Dissociation over a

^{3/} Familiarity with that decision is presumed for purposes of this decision.

^{4/} Stipulation No. 9 to Amendment No. 10 required Zortman to undertake a study to research the following: (1) cyanide co moisture retention in all abandoned heaps on the site after neutralization; (2) development of blind-offs within the heaps and tralization; (3) infiltration rates as they relate to reclamation practices; (4) rates of natural cyanide degradation occurring over t and (5) long-term seepage from reclaimed heaps to identify volumes, concentrations of metals and cyanide, and rates of nat and metal attenuation that would occur following release of the solution.

IBLA 91-186, 91-220, 91-221

not be cured by rinsing, as the rinse water might not be able to flow through the area. As the plan called for the heaps to be in place after processing, it was necessary to consider whether cyanide would be retained in the abandoned heaps.

During the pendency of the appeals addressed in our decision in <u>Red Thunder, Inc.</u>, <u>supra</u>, BLM proceeded with a the cyanide retention study. A meeting was held on June 26, 1990, at the Basin Creek Mine near Helena, Montana, to investigating concerns raised by BLM and DSL about rinsing behavior and the long-term impact to the surface waters of workplan was solicited from an ad hoc review committee composed of representatives

from DSL, BLM, U.S. Forest Service and the Environmental Protection

Agency as well as a representative of Pegasus Gold Corporation (Pegasus), Zortman's parent corporation. No members of other representatives of local Indian groups were included in the committee or attended its meetings, which were evidently

In July 1990, following the committee meeting, acting on Zortman's behalf, Schafer and Associates (Schafer), Corporation, prepared a workplan for the investigation of rinsing behavior and long-term cyanide degradation. Schafer conducted a pilot study

using the abandoned 1982 heap at the Landusky Mine to evaluate testing equipment performance and installation technique heap leach pad material. The purpose of that study was to assure successful monitoring of the degradation and rinsing study on Cyanide Degradation and Rinsing Behavior in Landusky

Heaps (Report) at 6-1 - 6-14. Installation of instruments in the 1982

heap commenced on July 26, 1990, and data collection began on August 6, 1990. After measurements of conditions in the heap was excavated, exposing the material at depth, in order to examine

the condition of the material and to compare those conditions with the measurements. Thus, the accuracy of the measurements Excavation and sampling of the pilot study area concluded on August 23, 1990.

Between August 1 and September 21, 1990, sampling equipment similar to that tested in the pilot study was placed at depth in the abandoned

5/ A variety of "downhole" tests were run, in which instruments were dropped into steel casing or "access tubes" in holes 1982 heap. Downhole probes, including gamma and neutron probes, were used to obtain information on the in-place density and water content of the porous material with depth, at various stages of the test leaching and rinsing. Suction lysimeters were also used to obtain information on the in-place density and water content of the porous material with depth, at various stages of the test leaching and rinsing.

of the porous material with depth, at various stages of the test leaching and rinsing. Suction lysimeters were also used to and soil gas samples at depth, and heat dissipation units were used to measure water content. Bromide (which closely mimics dye (which is easily traced in small concentrations and would be retained in blind-offs) were applied to the surface to act a to reveal flow patterns and effective velocities.

IBLA 91-186, 91-220, 91-221

1986 heap. 6/ Id. at 7-1 - 7-43. The bulk of the testing was done at the 1986 heap. From September 25 to October 5 the study area of the 1986 heap was leached with cyanide solution and data was collected from the sampling equipment. From October 12 to October 26 one half of the 1986 area (Area A) was drained under gravity and then sprayed with fresh water to allow rinsing, and then further data was collected. The other half of the area (Area B) was drained and left to the process of "natural degradation" in place. Samples were taken (1) during application of the barren solution; (2) during the "rest pe

leaching; (3) during application of rinse water to Area A; and (4) after completion of rinsing.

The behavior of the fluids applied to the 1986 pad is generally described as follows in the Report: "[A]pplied we quickly through the profile. The wetting front moved through the entire 80 foot monitoring zone within roughly 12 hours. Perched water table conditions did not appear to form during solution application. The degree of saturation never approached fully saturated (Report at 7-12). That finding showed that fluids flowed freely through the heap, so that there was no indication of impermentation cause cyanide solution to be retained. The data also confirmed that free cyanide levels declined substantially even the 20 days following completion of leaching in Area B of the 1986 heap.

The study also used the 1986 heap, as well as the Montana Gulch Waste Dump site at the mine, to determine in water on reclaimed and unreclaimed structures, in order to investigate water balance and predict long-term flux (rate of flow The 1986 heap was used to study unreclaimed conditions, and the Montana Gulch Waste Dump site to study reclaimed conditions.)

The Report was completed on January 22, 1991, and forms the basis for BLM's conclusions that there would be no simpacts from abandoning the heaps and that leaching could begin on the Sullivan Park Pad.

The Report confirmed that the heaps contained gradations of textures of ore, from coarse at the bottom to fine a "lift" of the heaps. The "lift" is the vertical increment of ore added to the heap by dumping ore out of ore trucks as the heap is

^{6/} Considerably more testing was done on the 1986 heap and more testing equipment was used. A total of 24 neutron ac through the first 3 lifts, 12 per plot in 30-foot grid spacing (Report at 7-1). Additional equipment was installed at two places fine layer was found, and another where slow solution circulation was suspected. All data from all tests are included in the Report's appendix.

contains many lifts. The reason for the variation in texture in each lift is that when the ore is dumped from the truck down the face of the lift, the coarser material cascades to the bottom so that, as material collects on top (Report Fig. 3.1). Further, the upper 3 to 5 feet of each lift, containing the finer material, are compore trucks as they cross the lift to dump more ore to expand the heap. The top several feet of each lift were also subject to mo weathering and particle disintegration induced by leaching. Zortman alleviated the compaction of the lift surface by right directions at 3-foot spacing (Report 3-1 and 3-2).

Fluid transport downward through the heap would generally be

expected to be slower through fine material than through coarse.

Accordingly, in view of the compaction of the fine material at the top of each lift, it was regarded as likely that blind-offs would occur, if at all, along the horizontal plane between the top of the older lift (containing finer materials) and the bottom of the newer lift (containing coarser materials) placed immediately above. These planes, denoting the horizontal boundaries between lifts, are described as "lift interfaces." Therefore, the study tested several of the lift interfaces in the 1982 and 1986 heaps. Test results confirm distinct gradations of material in each lift: the top 3 to 5 feet being fines, the lower 5 feet being "medium to large rocks," at the material lying between being of "intermediate" size (Report at 6-11). Material size was found to be homogenous lateral

The study tested heap material at depths up to about 80 feet, allowing several lift interfaces to be sampled. It was recognized that the Sullivan Park heap would eventually be up to 400 feet high, and that porosity of material at greater depth would be reduced, owing to the weight of the overburden above it. However, it was noted that a large decrease in permeability would be necessary to reduce the flow capacity of the ore. Experience at the Landusky Mine tests within the heap, showed that a reduction in porosity did not reduce the observed permeability of ore (Report at 7-40).

Test results from depths up to 80 feet were extrapolated to reflect conditions at greater depths, up to 400 feet, bas potential breakdown of ore under loading. Ore from the Landusky Mine was subjected to a vertical load of 110 pounds per square foot, the equivalent of 400 feet of overburden. Physical examination this increased vertical load slightly reduced the size of some of the larger particles, but very little change was observed in materials. The Report concluded:

As the permeability of porous media is influenced most strongly by the finer particles, it can be concluded ticle breakdown under loading will not lead to the formation of continuous fine layers and that the results obtain

study can therefore [be] extrapolated to the much higher Sullivan Park heap.

(Report at 7-41).

The study confirmed that fluid drained more slowly through fine material than coarse, but found no evidence of fines migration or "impermeable zones." Despite this difference in fluid dr within the heaps was found to be "relatively rapid and uniform" (Report at vi). Unsaturated flow processes were found to comaterial, so that fluids tended to move quickly through the material. The study found that, even if the pad was not rinsed for degradation processes reduced levels of cyanide by "10 to 20-fold over the first 12 months following leaching," largely by vaporizing), a process in which cyanide is slowly neutralized and harmlessly released into the air. Id. 7/

Rinsing the heap with water after leaching was found to be effective in quickly reducing the levels of cyanide, heap. One "pore volume" of water 8/ removed from 50 to 90 percent of the cyanide and metals in the pore water. Although the rate of solution circulation was slower than in the remainder of the heap, leaching and rinsing occur in these zones, all natural degradation occurred there as well (Report at 7-42 - 7-43).

The study also predicted the long-term flux of rainwater through heaps, both with and without vegetative cover, in future impacts to groundwater after closure. The Report contains an environmental risk exposure assessment using computer modelling, in order to assess risk of exposure to potential "receptors" (humans, mice, birds, cattle, chickens, bluegill, and perch) as a resint of ground and surface water of storm water running through the heaps.

^{7/} Although the prospect of hydrogen cyanide (HCN) gas being released into the air seems alarming, the HCN gas released from volatilization is "extremely dilute" (Report Fig. 3.4). There is no even threat from HCN gas even while the full-strength cyanide solution is being applied to the heap. Although the release of Fixeeping the pH of the solution high, a condition that might not prevail indefinitely in the abandoned heap, there is nothing to of HCN gas through volatilization poses any threat of harm. It appears that the process of volatilization is slow enough that sof gas are not released, and that the small amount of HCN gas that is released diffuses and disperses in the atmosphere.

8/ One "pore volume" was defined as "the quantity of water equal to the water content of the heap at specific retention." It defined as follows: "As applied to a rock or soil the ratio of the volume of water which, after being saturated, it will retain again to its own volume. Dictionary of Mining, Mineral, and Related Terms (Bureau of Mines, U.S. Department of the Interior)

IBLA 91-186, 91-220, 91-221

The exposure assessment noted that, when operations on the leach pad were concluded, the liners of all pads would be perforated, allowing water to flow downward through the finger drain to ground water in unsaturated conditions. Cyanide concentrations would be gradually reduced by attenuation, mixing, dilution, and precipitation (Report at 9-2). During heavy precipitation causing sa could run off out the underdrain to the surface, threatening more immediate risk to humans, livestock, and wildlife using w Thus, exposures for both surface and ground water runoffs were studied.

Using "extremely conservative" assumptions (including disregarding any natural attenuation or degradation of cyanide in the heap materials or in the water solutions, considering the consequences if all water ran off over the surface, and using a model storm event 50 percent in excess of the 100-year storm), the assessment predicts that no harm could occur to any receptor even if it is exposed for an extended period of time (Report at 9-22). These models were validated by simulating the rinsing event on the 1986 heap, and results conformed to a (Report at 9-6).

BLM's Supplemental Environmental Assessment and Finding of No Significant Impact

On January 25, 1991, BLM and DSL issued a supplemental environmental assessment (SEA). The SEA state degradation of cyanide compounds in all spent ore heaps at the site:

Cyanide in the leached ore heaps would be degraded by dilution after completion of ore processing. Fresh new would be circulated to dilute and degrade the cyanide compounds left in the heap. If dilution with water is unseffort would be supplemented by the addition of an oxidizing

9/ The underdrain system appears to have at least two functions. First, it provides a safeguard if the liner or pad should ing operations, as it would intercept any fluid beneath the pad facility and transport it laterally via gravity to a point at the toe of the dike, where the flow "daylights as a surface flow which can be a (Zortman's Response to Supplemental Statement of Reasons, Response to Appellant's Assertions at 3 and Affidavit of Mar at 2-3).

Second, after completion of leaching, the underdrain apparently serves to prevent failure of the pad structure during heavy precipitation or snowmelt. At closure, the liners of all pads would be perforated, evidently allowing water from light precipitation, whe prevail, to flow downward through the underdrain system beneath the liner into the ground water. However, it appears that during heavy precipitation or snowmelt, water would run off out the underdrain to the surface, thus preventing water from fill its sides.

agent such as hydrogen peroxide. Circulation of the neutralizing solution would be handled through a cont allowing for circulation of neutralizing solution from the pond back through the spent ore heap via spray lines nor cyanide solution application.

As required by Stipulation No. 1 to Amendment 10 cyanide neutralization of all spent ore heaps must contin ate discharge levels of less than 0.22 mg/l (milligrams per liter) [(WAD)] cyanide are maintained over a 6-month period which includes a spring snowmelt and runoff.

If chemical neutralization were not required, the resulting solution would be used for make-up water in leaching process on active heaps. If chemical neutralization is necessary, the resulting batch of solution water additional treatment to where it would be suitable for sprinkling on forest soils (land application) which at concentrations. Neutralized solutions would be land applied when cyanide concentrations have been reduced to 0.2 cyanide.

(SEA at 16-17).

The SEA also provided for perforation of the liners following neutralization of the heaps, presumably in response about surface and ground water runoff, discussed above:

To eliminate precipitation storage and undesirable hydraulic conditions associated with the reclaimed heap [10/] the pad liner would be perforated once the heap has been

10/ According to Zortman's application for the plan amendment, "[t]he heap leach facilities consist of three separate reclaimable elements: (1) the containment dike, (2) the leached ore pad[,] and

Tasks associated with the long-term reclamation of the heap leach facilities will include dike reclamation, process solution ration, slope reduction, resoiling[,] and revegetation" (Application at III-8). Further details of reclamation for the site are a set out in the record. Post-operation topography of containment dikes will reflect an overall slope of 2H:1V. Dike faces will be topsoiled and revegetated to blend with existing undisturbed contact zones. <u>Id.</u> at III-9.

Upon successful completion of solution neutralization and liner perforation, heap leach facility slopes will be g slope. The Sullivan Park heap leach pad, however, will be resloped to 2.25:1V with a 25-foot bench pioneered each 200 f Heap leach facility slopes are designed at an overall 2H:1V slope utilizing lift and bench construction. Additional site pre ripping of any compacted areas on the top of the leach pad facility to alleviate surface compaction and improve air a revegetation. Leach pad areas (crest, top, and slopes) will be

neutralized. Six-inch drain holes would be drilled through the heap synthetic and clay liners. Each drain hole w filled with sized rock to an elevation of at least 5 feet above the liner surface.

(SEA at 17).

The SEA contained a revised impacts assessment, stating that "impacts to water quality, public health, or other are not individually or cumulatively significant." BLM emphasized the following:

fn. 10 (continued)

resoiled and revegetated to complete final reclamation parameters. <u>Id.</u> at III-11.

Ponds established for solution processing or contingency operations will be perforated, backfilled, and graded p Backfilling will be completed using fill material from waste rock operations and/or concrete materials from structure footing areas will be topsoiled and revegetated. Sediment accumulating in processing ponds will be sampled and analyzed to determin is feasible. If so, the resulting sludge will be buried with

waste rock and the site further reclaimed; if not, cyanide in the sludge will be neutralized with an oxidizing agent and the sedi and disposed of pursuant to State law. Should any difficulty occur in neutralization or encapsulation in cement, a method of d in accordance with applicable Federal and state laws and regulations. <u>Id.</u> at III-16.

Overall slope of pit walls will be approximately 45 degrees (1H:1V) with 30-foot wide flat benches every 60 verbe sloped and graded to facilitate drainage and alleviate accumulation of stagnant water. When possible, pit floors will be concurrent with ongoing mining operations. <u>Id.</u> at III-6.

Waste depository slopes will be reduced to obtain a final slope of 2H:1V. The top of waste depository sites w surface compaction and improve air and water movement within the soil,

thus promoting vegetation root growth and penetration. To stabilize

and reestablish vegetative cover, the top and sloped areas of the waste depositories will be resoiled and revegetated. Id. at

Soil redistribution does not account for pit highwalls, soil

stockpiles, the land application site, or certain roads to remain

after reclamation, because these sites are not identified for revegetation or resoiling. <u>Id.</u> at III-20. Selection of plant species on pre-mine species occurrence, post-operation

land use objectives, establishment potential, growth characteristics,

soil adaption and stabilizing qualities, wildlife palatability, and commercial availability. Id. at III-22.

Final reclamation will also include removal of all structures and equipment used in mining and processing, included Landusky processing plants, maintenance shop and support service structures, the new Landusky processing plant, leach processing plant, leach processing plants, at III-8.

- 1) Specific moisture retention in the heaps is low at 7.4 percent (average), increasing to 8 percent moisture cleaching. After leaching ceases the moisture content returns to equilibrium within about a week and heap dis Approximately 10 percent of the pore space volume contains the retained solution. This allows for degradation through volatilization to occur in the remaining air-filled pore space of the heap surrounding the [retained] fluid
- 2) There is no evidence of blind-off development in the older heaps at the Landusky Mine and none is expect in the proposed heaps. Therefore both active and passive heap detoxification processes would be able to occur the ore heap at closure.
- 3) Any cyanide concentrations retained within the heap after detoxification procedures have ceased widegrade naturally. Even assuming the unlikely retention of full strength cyanide solution in some portions of cyanide concentration would decline to acceptable levels [within] 6 to 8 years.
- 4) There is no threat to public health or the environment by effluent discharge from reclaimed heaps at Mine.

An environmental risk assessment was completed to identify the potential effects of cyanide and metals released from to a 6-inch storm event. Predicted levels of WAD cyanide were 0.055 mg/l in groundwater, and 0.037 mg/l in standards are well below the 0.22 mg/l Health Advisory level. Metal levels in cyanide solutions were tied to the abundance of cyanide, as most occur as metal-cyanide complexes. When cyanide levels have reached the criteria of 0.22 mg/l, metals in solution are well within the drinking water standards.

(SEA at 23-24). BLM concluded that Zortman had satisfactorily complied with Stipulation 9; <u>11</u>/ that no additional modified or stipulations to Federal Plan of Operations MTM-77779 were warranted by the study findings; and that there are no significant impacts or issues requiring additional environmental analysis before loading and leaching could occur on the Sullivan Park leach pad. <u>12</u>/

The SEA was subject to a 30-day comment period, and BLM scheduled a public meeting on February 21, 1991, in Dodson, from the minesite. Several objections to the location of the meeting were filed, including one by Red Thunder, asserting that or

^{11/} See note 4, supra.

^{12/} As the SEA was prepared jointly by BLM and DSL, it also indicated that no changes were warranted for the State operating permit. The SEA also addressed the Montana Gulch expansion leach pad, not at issue here.

Lodgepole to allow Native Americans to attend. Both BLM and DSL answered these objections, explaining that the Dods central location for all interested parties.

BLM received many comments on its EA. Some of these comments criticized the methodology of the study. requested that BLM prepare an EIS.

On February 28, 1991, BLM issued its supplemental finding of no significant impact (FONSI) and decision record No. 10 and allowing loading and leaching of ore: "The study results of stipulation #9 provide substantial confidence that in impacts of ore loading and leaching are not significant. The action will not cause unnecessary or undue degradation, and federal regulations 43 CFR 3809, and [BLM's] Little Rockies Management Framework Plan." BLM also responded to robjections.

BLM's FONSI and decision allow leaching operations on the Sullivan Park leach pad to proceed and permit Zolleach pads on the site upon decommissioning. 13/ Based on its conclusion that these operations will have no significant impact, an EIS considering the environmental effects of approving Amendment No. 10. Appellants challenge both the decision to allow leaching and the failure to require preparation of an EIS.

[1] Section 302(b) of the Federal Land Policy and Management Act of 1976, 43 U.S.C. § 1732(c) (1988), as applied specifically by 43 CFR 3809.0-1 to operations authorized by the minimanaging the public lands the Department shall "take any action necessary to prevent unnecessary or undue degradation of the pleted by Zortman demonstrates convincingly that the approval of leaching operations on the Sullivan Park pad and the abar others containing residual levels of cyanide as planned will not cause unnecessary or undue degradation of the lands.

Appellants' challenges to BLM's decision are unpersuasive. <u>14</u>/ Appellants reiterate their concern that there are no strom mining operations do not enter King's Creek, which flows into the Fort Belknap Reservation, and that testing the wat contaminants could be in sediments. We rejected this concern as unfounded in <u>Red Thunder, Inc.</u>, <u>supra</u> at 175-76, 97 I.D. at provides additional information indicating that appellants' concerns are groundless. BLM ruled as follows in its response to

^{13/} See note 10, supra.

 $[\]underline{14}$ / Respondents argue that appellants are barred from generally challenging the decision approving full implementation of Ar failed to convince us to overturn BLM's decision in their previous appeal. We disagree. By bifurcating its decision into two opened it to challenge twice. Of course, in the absence of presentation of new facts or arguments, we need not reconsider ques

[W]ater quality monitoring of [King's] Creek is part of the overall mine monitoring plan. Two additional monitoring been placed there per stipulation #6. Past BLM testing of the tailings has not identified any contaminants. It missioned for the Reservation with the Council of Energy Resource Tribes (CERT, 1987) also evaluated King's findings are as follows: "Environmental related studies indicate that mining activities are not presenting an enhazard to the water supplies of the reservation. This conclusion is based upon comparison of CERT's water and str geochemical data with previous similar studies and the national drinking water standard." And finally, State officials from DSL, BLM, and BIA walked the King Creek drainage on July 27, 1990. Water samples were taken Creek at the Reservation boundary, King Springs, Bone Springs, and the confluence of King Creek with the North Creek. No violations of drinking water criteria or standards were detected.

(BLM's Response to Comments to SEA at 5).

Zortman has demonstrated good faith in allaying concerns about adverse impacts on the water supplies of the Formal By letter dated November 28, 1990, Zortman made a proposal for extensive air and water quality monitoring to the Fort Belk calls for monitoring surface water at 17 sites, including King's Creek flowing north from the Little Rocky Mountains. In a to be monitored

at 10 sites in the Bull Creek, Mission Canyon, Lodgepole Creek, and Beaver Creek drainages on the Reservation north of quality is to be monitored at three sites near Hays, Lodgepole, and on Beaver Creek north of the Reservation. Appellants he convincing evidence that this water monitoring is not reasonably designed to disclose any contamination of King's Creek.

Zortman notes on appeal that baseline monitoring was, and continues to be, conducted to assess long term changes in the metal content of area waters. Heavy metals are expected to be exported if cyanide escapes. Accordingly, a plan has been developed to detect cyanide. If cyanide is detected, the spill contingency treating the spill, but also calls for increased metals monitoring frequency to ensure that metals will not escape from the s shown that this plan is inadequate to ensure that area waters will not be polluted by the operation.

Appellants point out that they have not had an opportunity to participate first-hand in the tests leading to the Report of nothing that would compel a mine operator to consent to participation by third parties in such tests. The reliability of the by the credentials of its authors and by a statement in support of its methodology by noted authority (Zortman's Response, Af Appellants have not impeached these credentials. More specifically, appellants have failed to demonstrate that the methodol to predict the situation at greater depths was erroneous.

We note that the instruments placed in the 1986 pad detected practically no cyanide when first inserted. Similarly was excavated, exposing several lift interfaces, no evidence of cyanide was found, even though the pad had been decommissioned without rinsing. This data generally confirms BLM's finding tha rally to levels far below danger to any organisms and controverts appellants' assertions that the abandoned heaps contain "that cyanide, once placed into the ground, "cannot be cleansed" and will remain forever.

The tests undertaken on the 1986 heap also fail to indicate that pockets of ore containing dangerously high leve or that such are likely to exist in the abandoned pads. We stress that the test evidence does not stand by itself, but corroborates other previously known facts also indicating that no blind-offs from the ore was good, as was cyanide solution recovery; high levels of cyanide have not been observed in the many monithe decommissioned heaps.

Appellants assert that BLM's approval fails to assure that the Amendment No. 10 will not cause significant harm to a present a statement indicating that there may be vertical gradient components in the structure underlying the pad through which enter a deeper bedrock aquifer, and that significant harm to groundwater could occur without detection. They also argue to for all potentially harmful pollutants and that groundwater monitoring near the land application area is insufficient to assure the insignificant (Appellants' Supplemental Statement of Reasons).

DSL has presented expert opinion disputing appellants' assertion, indicating that there are no discrete groundwater porphyry and the syenite porphyry underneath the Sullivan Park leach pad. Relying on continuity evident in the groundw DSL asserts that the existence of separate aquifers is unsubstantiated and directly contrary to existing data.

In addition, Zortman and DSL each responds persuasively that, during leaching operations, the integrity of the de Pad and the underdrain system in place beneath the pad and liner will prevent cyanide solution from entering the groundware to

Supplemental Statement of Reasons at 3-4 and supporting affidavits; DSL's Response to Supplemental Statement of Reasons point out that the underdrain system is monitored on a daily basis (Plan

of Operations, Appendix 2, Table 4). Although not specifically addressed

by Zortman in its response, the issue of the potential for contamination

of groundwater after completion of leaching operations was considered extensively in the study, which (as discussed above) cant threat was presented. Considering the entire record, we hold that BLM properly held that there would be no significant e

Zortman argues, with reason, that appellants have failed to establish any likelihood that the additional "potentially they recommend testing for would actually be associated with heap leaching. <u>Id.</u> at 6-7. In the absence of such showing, we fit for allowing the permit amendment without additional testing. In any event, as BLM points out, there is good reason for the cyanide: unlike metals, cyanide is not naturally present in detectable amounts in area waters. If cyanide is detected, it is played been transported to the area as a result of the heap leach mining. <u>15</u>/ The monitoring plan is reasonable and is desubstance most indicative of contamination.

Finally, Zortman and DSL both point out that land application of cyanide solution is not likely to affect ground with controlled amounts of treated solution being discharged to the application area. They stress that, as the ground is no likelihood that solution could percolate downward and reach groundwater. Instead, the residual cyanide will be harmlessly a by vegetation. The amount of cyanide in such solutions will have been lowered by neutralization and will be known befor allowing application of the solution at a rate that will ensure successful land application (see id. at 8-9; DSL's Response to of Reasons at 4). As BLM notes, soil sampling is required for 3 years after use to monitor and verify the metals attenuation soil (BLM's Response to Supplemental Statement of Reasons at 14).

Further, we are convinced by the cyanide retention study and the case record that there are no unmitigated environs significantly affect the environment that have not been previously addressed. Section 102(2)(C) of the National Environment requires preparation of an EIS in the case of "major Federal actions significantly affecting the quality of the human ere § 4332(2)(C) (1988). As we held in Red Thunder, Inc., supra at 175, 97 I.D. at 267,

15/ Appellants have submitted evidence from two tests allegedly showing high levels of lead in King's Creek. The validi into question because their results differ greatly, and because the samples were evidently not verified by at least two other this test is at odds with the results of repeated water quality sampling. There are also tailings from historic mining preda Landusky Mine that drain into King's Creek. No effort has been made to demonstrate that these levels are not caused by thes Appellants refer to detectable levels of cyanide in the Ruby Creek Drainage. However, this condition evidently pads at the head of the drainage. Appellants have not shown that such detectable levels are emanating from the leach pads Appellants' claims concerning lead poisoning have been thoroughly rebutted by Zortman.

it is well established that the Board will affirm a FONSI with respect to a proposed action if the record establishes that a camental problems has been made, all relevant environmental concerns have been identified, and the final determination that it is reasonable in light of the environmental analysis. See also Southern Utah Wilderness Alliance, 123 IBLA 302, 308 (measures are imposed to reduce impacts of the environmental effects of the proposed action that might otherwise be significant affirmed. Red Thunder, Inc., 117 IBLA at 183, 97 I.D. at 272; Idaho Natural Resources Legal Foundation, 115 IBLA 88 (

Thus, one challenging such a finding must demonstrate either an error of law or fact or that the analysis failed to co ronmental problem of material significance to the proposed action. The ultimate burden of proof is on the challenging part satisfied by objective proof. Mere differences of opinion provide no basis for reversal. <u>G. Jon Roush</u>, 112 IBLA 293, 297-98

As we held in <u>Red Thunder, Inc.</u>, <u>supra</u> at 181-83, 97 I.D. at 270-71, with one exception, BLM properly "tiered" its environmental review (using environmental assessments) of Amendment N prepared under Montana State law for the Landusky Mine in 1970. This procedure (we held) subjected the proposal to carefu 77, 97 I.D. at 267-68), and we generally affirmed BLM's conclusion that no undue degradation of the environment will amendment.

The one area of concern that we identified is the cumulative impacts of mining, specifically including the abandonment (or "decommissioning") of the pads on which leaching has been completed. Under 40 CFR 1508.7, a "cumulative impact" is the impact on the envir the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions. At decomm ore is not relocated, but left on the pad. If the material in the heap left on the pad contained high levels of cyanide, we held, t cumulative effects from so abandoning these pads. Therefore, we instructed BLM to consider this question before issuing a Sullivan Park leach pad to be used. <u>Id.</u> at 188, 97 I.D. at 274-75.

The study completed by Zortman demonstrates convincingly that the approval of leaching operations on the Sulliva donment of the pads containing residual levels of cyanide do not entail cumulative environmental effects that will significantly. Nor do we find any other significant, unmitigated environmental effect that has not been analyzed as required by law.

[2] We reject appellants' assertion that BLM must prepare an EIS considering Zortman's proposed exploration a Little Rocky Mountains. Appellants have provided us with documentation confirming that Zortman was considering and discontinuous confirming that Zortman was considered and discontinuous confirming that Zortman was considered as the province confirming that Zortman was confirmed as the province confirming that Zortman was confirmed as the province confi

a project to explore for gold and silver in a large area to the east of the Fort Belknap Reservation. <u>16</u>/

Appellants cite 40 CFR 1508.27(b)(6), specifically discussing the need for an EIS when there is a high degree of precedent for future actions. Citing 40 CFR 1508.25(a)(iii), appellants also argue that BLM may not "segment" its environmental analysis, and that both the Sullivan Park heap leach pad and the exploration plan are "interdependent parts" of Zortman's larger mining operations in the Southern Little Rocky Mountains.

By letter of July 9, 1992, Zortman informed BLM that it was withdrawing its 10-year mineral exploration program. Little Rocky Mountains. Zortman explained that that program, which had been submitted to BLM on December 13, 1990, and thereafter was amended on March 23, 1992, "lost out" to other projects that might yield minable reserves within the next 1 to 3 years. Appellants hav withdrawal by stating that future exploration of these lands may be easily reinstated and, therefore, should be included in a consideration of cumulative effects in a full EIS.

As noted above, under 40 CFR 1508.7, a "cumulative impact" is the impact on the environment that results from the incremental impact of the action when added to other past, present, and <u>reasonably foreseeable</u> future actions. The withdrawal of Zortman's exp weakens appellants' claim that the proposal should have been considered. <u>17</u>/ Zortman's letter leaves little doubt that the merely delayed or suspended. The withdrawal also undermines the notion that the exploration was an interdependent par No adjustment to that operation has been called to our attention.

If the proposal is reinstated, BLM must consider its environmental consequences as required by law. Any decision would be subject to appeal, at which time the appropriate degree of environmental review would be justiciable.

[3] Appellants also argue that BLM has failed to comply with the requirements of section 106 of the National I (NHPA), as amended, 16 U.S.C. § 470f (1988). Appellants refer to BLM's alleged failure to follow required procedures in

^{16/} This map indicates that Zortman proposed to explore in approximately 38 different sections.

^{17/} Compare Havasupai Tribe v. United States, 752 F. Supp. 1471, 1504 (D. Ariz. 1990) (consideration of exploration ald materially to an analysis of the cumulative impacts of other mines in the area); see also Cabinet Mountains Wilderness v. 1683 (D.C. Cir. 1982) (environmental assessment of an exploration program held not invalid for failure to consider develop

of approval of Amendment No. 10 on two sites identified by BLM's District Archaeologist in a June 12, 1990, memorar map. <u>18</u>/

Section 106 of the NHPA provides:

The head of any Federal agency having direct or indirect jurisdiction over a proposed Federal or federally a taking in any State and the head of any Federal department or independent agency having authority to license any shall, prior to the approval of the expenditure of any Federal funds on the undertaking or prior to the issuance of as the case may be, take into account the effect of the undertaking on any district, site, building, structure, or included in or eligible for inclusion in the National Register. The head of any such Federal agency shall afford Council on Historic Preservation * * * a reasonable opportunity to comment with regard to such undertaking.

Procedures are specified in 36 CFR 800.4 to review possible effects of undertakings on properties either listed in the National Register. The term "eligible"

for inclusion in the National Register" includes not only properties formally determined as eligible under 36 CFR Part 63, other properties that meet National Register listing criteria." 36 CFR 800.2(e).

The basis for appellants' belief that these sites should be included in the National Register appears to be that the sites, being considered important vision questing and fasting sites.

18/ The two sites are Gold Bug Butte, which is at the center of the Zortman Mine, and Mission Peak, just west of the mines Indian Peak as being a cultural site affected by mining activities at the Landusky Mine. The adverse effects on Mission Peak and Indian Peak appear to be limited to visual and audio intrusion on vision questing.

BLM expressly addressed this argument in the comments to its draft EA, issued in connection with its June 22, I Amendment No. 10 subject to completion of the cyanide retention study:

"74. The very recent archaeological inquiry by the District BLM staff has resulted in numerous sites eligible for Historic Places (National Register)].

"These locations were identified as sites of primarily religious significance. As with similar resources elsewhere in nature are not considered historic features eligible for the [National Register]."

Although the question of BLM's compliance with NHPA was thus justiciable as of June 22, 1990, appellants did not Nevertheless, we shall address this question, as BLM's asserted failure to comply, if proven, would be ongoing as of the issue decision.

IBLA 91-186, 91-220, 91-221

In April 1990, BLM had initiated contact with representatives of Indian interests in the vicinity of the Landusky Mine for contact then proposed mine expansion entailed by Amendment No. 10. It appears

that BLM initiated contact in connection with its obligations to consider Indian religious questions under section 2 of the Ar Freedom Act of 1978 (AIRFA), 42 U.S.C. § 1996 (1988). No immediate response was received, but BLM persisted. 19/ Arou BLM's archaeologist met with Indians from the Fort Belknap Reservation, who identified sacred sites in the Southern Little findings are set out in a June 12, 1990, memorandum and accompanying map.

The BLM archaeologist had previously, in May 1990, referred to some historic religious use of the Mission Peak at

Documentation exists for the use of this area as a fasting area for many generations. Its importance has be the past, but there is some doubt as to the continued use of the site since access has been denied to Native American adverse effects to the reservation are the visual and auditory distractions of the extant mine. [Citation omitted.]

In his June 12 memorandum, the archaeologist described Gold Bug Butte, which is at the center of the Landusky mine opera tribal fasting and burial ground area." <u>20</u>/

By letter dated June 5, 1990, the State Historic Preservation Office (State HPO), apparently having recei archaeologist's impending report, wrote to BLM as follows:

Thank you for sending the EA referenced above for our review. We find this amendment area was review resources by our office in 1989. As your EA correctly states, no National Register properties were identified potential environmental effect for this proposed expansion.

We have received information since our review of the 1988 cultural resources inventory report, however, we the area under consideration may possess traditional cultural values. We therefore recommend that the potential effects of

^{19/} The BLM archaeologist who initiated contact speculated in his May 9, 1990, report of activity that the Tribe did not mining activity and the remains of past mining activity have already destroyed the sacred aspects which are known to have this locality."

<u>20</u>/ The archaeologist's report also comments generally on the religious significance of sites, noting that a small area that is may not be particularly important to another. Further, an area such as a mountain, if held in high esteem by several individuals, may become regarded as sacred, and there are no time limits when the areas were not used for their presently regarded purpose.

IBLA 91-186, 91-220, 91-221

this undertaking on traditional cultural values be considered and incorporated into the existing EA.

On February 20, 1991, BLM received a letter from the State HPO questioning whether the land area had been "the cinventory within the framework of [36 CFR Part 800]," and whether there had been "later, additional inventory to determine whether properties of importance for traditional cultural values within a Nati (not an AIRFA framework) did occur within this or a later permit area." The State HPO requested that BLM provide a "que by a telephone call.

The record contains a copy of a State HPO memorandum documenting a telephone call from BLM in response to the memorandum, BLM advised the State HPO that there had been an earlier inventory, but that there had <u>not</u> been any la traditional cultural values. BLM advised the State HPO that it had addressed effects on cultural values through its effort to compare that no further action was being considered on the permit, which had already been reviewed. This explanation, which is statements at various places in the record that sites of religious concern should be considered religious resources under AII sites subject to the historic preservation laws, evidently satisfied the State HPO.

Departmental regulation 36 CFR 800.4(c)(3) provides that the State Historic Preservation Officer must agree the are met before a property can be considered eligible for the National Register for section 106 purposes. There is no indicat has done so here, although he was clearly aware that sites possessing traditional cultural values were found in the area. The ast o eligibility or the need for procedural compliance with NHPA. 21/

In closing, we note that BLM has not disregarded the significance of Indian cultural sites. In the course of its AIRFA solicited the opinions by Native Americans, both individually and in Tribal groups, and has considered and made some mitigat concerns. 22/ As we held in <u>Red Thunder, Inc.</u>, <u>supra</u> at 197, 97 I.D.

21/ Appellants make much of letters from the Advisory Council on Historic Preservation. The gravamen of these letters in BLM that, if there are any properties (in either the plan amendment area or in the area of the planned exploration) that are determined eligible for the National Register, in consultation with the State HPO, then BLM might be required to obtain the Advisory Council

State HPO did not determine that there were eligible properties in the plan amendment area, BLM was not required to do so. BLM's obligations concerning the area of the once planned exploratio us at this time.

 $\underline{22}$ / On June 21, 1990, in two memoranda to the file, BLM demonstrated that it did consider these questions: "Because of the nature of the

at 279, in the absence of a showing that BLM failed to consider other reasonable mitigating measures, it has complied with require BLM to bar responsible mining (a legitimate use of the Federal lands), owing to its temporary intrusion on individual I We stress, as we did in Red Thunder, that appellants have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified any additional mitigative measures that BLM might have not specified and have not specif

To the extent not expressly addressed, appellants' arguments have been considered and rejected. A request for January 7, 1992, is denied as unnecessary.

Accordingly, pursuant to the authority delegated to the Board of Land Appeals by the Secretary of the Interior, appealed from is affirmed.

I concur:	David L. Hughes Administrative Judge	
Franklin D. Arness Administrative Judge		
fn 22 (continued)	<u> </u>	

locations, primarily landforms such as mountain tops, the only option would be to avoid the sites with mining activity if it was possible to do so within the constraints of the mining technology. One location,

Gold Bug Butte, has already been disturbed by mining and is within the expected mining disturbance of [permit amendmen not be mitigated"

(Burt Williams Memorandum, June 21, 1990). Gold Bug Butte is described as

"a mixture of private and federal land [that] has been involved in mining activity for over 100 years. Currently t butte is being mined using open pit methods. The physical integrity of

this area has been lost. * * * [N]o real mitigation of this location was possible due primarily to the land ownership patter disturbance, and the surrounding level of activity"

(Scott Haight Memorandum, June 21, 1990).

BLM also recognized that

"religious practitioners on two of [the] 11 locations [identified by the archaeologist], Mission Peak and Indian Pe visual or audio intrusion from mining activity should they be at the summit, or on the east side of these peaks. The reclama mitigate the visual intrusion. The audio intrusion would not be reduced until after mine life, or during the annual 4 day shutthe Sun Dance Ceremony."

Id.

IBLA 91-186, 91-220, 91-221 : MTM-77779

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RED THUNDER, INC., <u>ET AL.</u> : Mine Plan of Operations

124 IBLA 267 (1992)

Petition for Reconsideration

Granted;

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Decision Reaffirmed

ORDER

Red Thunder, Inc. (Red Thunder), has filed a petition for reconsideration of our decision in <u>Red Thunder, Inc.</u>, 12 <u>Thunder II</u>). 1/ We grant the petition for purposes of clarifying our decision, which we reaffirm.

On reconsideration, Red Thunder challenges only that portion of our decision dealing with sec. 106 of the Nation Act (NHPA), as amended, 16 U.S.C. § 470f (1988). Red Thunder II, supra at 283-87.

As the Landusky Mine has been developed, BLM has been in contact with the State Historic Preservation Offic Historical Society, concerning historical sites in the area affected by that mine. As late as 1989, attention was focussed on the district. Old mine workings in the vicinity were not deemed suitable for inclusion on the National Register, but the State I

1/ The decision on reconsideration affirmed the February 28, 1991, decision of the Lewiston (Montana) District Office, Bure (BLM), approving ore loading and leaching operations at the Sullivan Park leach pad at the Landusky Mine under an amen Operations MTM-77779 of Zortman Mining, Inc. (Zortman).

Previously, on December 19, 1990, we issued a decision modifying BLM's June 22, 1990, decision approving Ame BLM authorized the construction of the Sullivan Park heap leach pad. We required BLM to re-examine whether to prepare statement (EIS) for the plan amendment following completion of a study of the amount of cyanide retained in heaps on lead Minesite after leaching. Red Thunder, Inc., 117 IBLA 167, 184-88, 97 I.D. 263, 273-75 (1990) (Red Thunder I). We review study at length in Red Thunder II and concluded that BLM properly allowed leaching operations on the Sullivan Park Pad

124 IBLA 287A

IBLA 91-186, etc.

interest in preserving old mine records (Petition at App. D p.3). 2/

BLM had sent the State HPO a copy of its original environmental assessment (EA) of Amendment 10, which cor of effects of the proposal on cultural resources, based on the earlier inventory. That discussion did not mention Indian reli

In April 1990, BLM contacted representatives of Indian interests in the vicinity of the Landusky Mine to consult then proposed mine expansion. When no response was forthcoming, BLM's archeologist initiated contact and met with India Reservation around the end of May 1990. Together they identified sacred sites in the Southern Little Rocky Mountains. The were set out in a June 12, 1990, memorandum. The archeologist recommended that some of those sites "be considered eligi National Register of Historic Places [(National Register)] until the sites can be fully evaluated with respect to the National Register) as will be seen, BLM subsequently rejected that recommendation.

The State HPO evidently learned of the archeologist's suggestion prior to the issuance of his memorandum. On BLM:

Thank you for sending the EA [for Amendment No. 10, Landusky Mine] for our review. We find this am was reviewed for cultural resources by our office in 1989. As your EA correctly states, no National Register pridentified in the area of potential environmental effect for this proposed expansion.

We have received information since our review of the 1988 cultural resources inventory report, however, we the area under construction may possess traditional cultural values. We therefore recommend that the potential undertaking on traditional cultural values be considered and incorporated into the existing EA.

(Petition at App. D p.3).

As recommended by the State HPO, BLM did consider the effects of the mine plan on traditional cultural value

124 IBLA 287B

^{2/} Although citations are to appellant's petition for reconsideration, the cited documents are also contained in BLM's case r indicated, the history of the matter herein is based on our discussion in Red Thunder II, 124 IBLA at 283-87.

IBLA 91-186, etc.

June 21, 1990, BLM placed two memoranda in its file noting those effects. BLM observed that one religious site named in (Gold Bug Butte) was actually located in the area being mined and had "already been disturbed by mining and is with disturbance of [the permit] and probably could not be mitigated." BLM also noted that Gold Bug Butte was in part private involved in mining activity for over 100 years. Mitigation of that site was not possible "due primarily to the land owners physical disturbance, and the surrounding level of activity." BLM noted that two other sites named by the archeologist (Missi would be impacted by the mining such that one using the summit or the east side of those peaks would experience "visual mining activity." The audio intrusion would be limited to the life of the mine, and the visual intrusion would be mitigated by determined that the only site actually within the permit area had been long ago been rendered useless for cultural purposes by pand land ownership patterns; that two other sites would be impacted only were through the life of the mine; and that many ont affected by the proposal. BLM also indicated that "sites of religious concern should not be considered cultural resource preservation laws, but should be considered under" the American Indian Religious Freedom Act (AIRFA), 42 U.S.C. § 19

Also as recommended by the State HPO, BLM expressly addressed locations having religious values in the commendation EA for Amendment 10, stating that the "very recent archaeological inquiry by the District BLM staff [had] resulted in nume National Register." Oddly, however, BLM seemed to directly contradict that statement by immediately adding that, "[a] elsewhere, sites that are religious in nature are not considered historic features eligible for the [National Register]." Red Thu n.18.

Viewing those statements in light both of the complete record and of BLM's subsequent actions, it appears that BI although it had received a report from its archeologist and the letter from the State HPO indicating that there were religious so be eligible for the National Register, it had concluded that those sites were not eligible because they were "religious in national features." Although certainly ambiguous, BLM's statement must be regarded as a determination that the sites were not Register.

BLM evidently provided the State HPO with a copy of the amended EA and comments. On or around February

124 IBLA 287C

IBLA 91-186

State HPO contacted BLM regarding its supplemental EA. Not surprisingly, it had questions about BLM's action:

We don't have an official comment on this as much as questions. Is it fair to assume that the land area c assessment has been the object of earlier intensive inventory within the framework of 36 CFR 800? And, has the additional inventory to determine whether properties of importance for traditional cultural values within a Nati framework (not an AIRFA framework) did occur within this or a later permit area?

If a call can offer a quick answer, that's fine! Thanks for helping us sort this out.

(Petition at App. D-1).

BLM promptly responded by telephone. Its response plainly showed that it did not feel that the religious sites ident survey were historic properties under NHPA. BLM indicated that there has been an earlier inventory, but no later, addition the religious sites. 3/ BLM also indicated that it had addressed effects on areas possessing cultural values through its effort and that it had completed its review of the permit amendment application.

On February 27, 1991, the State HPO wrote BLM:

I appreciated your immediate call to me in response to my February 18 letter on [Amendment 10]. As I sug that call, a letter to follow would probably be a good idea. Now--since I continue to field questions on the proconsultation, I want again to request your written clarification.

I think that our questions of Feb. 18 are rather the heart of the issue and the questions I am hearing. In getyou to say * * * that all survey reports for the projects under present consideration

124 IBLA 287D

^{3/} That statement is curious, in view of BLM's decision to subject the area to a thorough inventory by its archeologist. BLM to be an inventory of religious sites, rather than historical sites. However, as noted below, the inventory was adequate to a 36 CFR Part 800 Subpart B.

IBLA 91-186

(including [Amendment 10]) that BLM anticipates preparing have already been sent to us? [4/]

That letter leaves no doubt that the State HPO was aware that BLM had completed its survey reports for Amendment 10 whether BLM confirmed that belief by answering the State HPO's questions. The inescapable conclusion was that BLM we mentioned in its archeologist's report as NHPA sites. Any remaining doubt was erased by BLM's February 28, 1991, decisi commence.

Departmental regulations at 36 CFR Part 800 Subpart B govern BLM's obligations in identifying historic proper NHPA. On reconsideration, appellant submits that BLM did not properly follow those regulations in concluding that there we

We note initially that, under 36 CFR 800.3(b), the procedures set forth in those regulations may be implement manner, as long as the purposes of section 106 and those regulations are met. We find that BLM adequately met those regulations are met.

The record indicates that BLM did review existing information on historic properties potentially affected by the u 800.4(a)(1)(i). That survey identified sites throughout the area having religious significance and contained commentary on the religious sites should also be treated as historical sites. The survey by BLM's archeologist was adequate to meet the requiren and (c).

Appellant also asserts that, in making its decision, BLM did not comply with 36 CFR 800.4(a)(1)(ii), which properties the views of the State HPO on further actions to identify historic properties that may be affected." It is evident from HPO was well aware of the findings of BLM's archeologist's extensive survey and had ample opportunity to consult with BI did in fact offer comments in June 1990 that caused BLM to consider the effects of the amendment on those sites and whether on the National Register. By copying the State HPO with its EAs and responding to its concerns in its comments on those requested the views of the State HPO

124 IBLA 287E

^{4/} The State HPO also stated its understanding that all future considerations of traditional cultural properties with the potenthe National Register would occur as part of planning for anticipated future mining undertakings. The only issue presented her of traditional cultural properties in connection with Amendment 10.

IBLA 91-186

as to historical sites both in 1990 and previously. 5/ The State HPO's questions in February 1991 were promptly answered. That was adequate consultation. Compare, Attakai v. United States, 746 F. Supp. 1395, 1407 (D. Ariz. 1990) (where there in the files of the Bureau of Indian Affairs (BIA) or the State HPO, that BIA had either consulted with the State HPO or findings that there were no historic properties). BLM also involved representatives of Indian tribes and the public in generocess. See 36 CFR 800.4(a)(1)(iii).

At no time did the State HPO offer any objection to BLM's decision not to treat the sites as historical sites. As the SBLM's determination, it is properly presumed to agree with that determination. See 36 CFR 800.4(c)(5).

Departmental regulation 36 CFR 800.4(d) specifies the appropriate procedures for BLM to follow when no histor BLM is required to notify the State HPO of that determination and to provide it "documentation" of that finding. BLM properties was clearly made not later than the telephone communication on February 27, 1991. By publishing the details of amendment and making its case record available to the public, BLM met the disclosure requirements of that regulation. Again the State HPO was well aware of BLM's decision not to declare the sites as historic properties and offered no formal objection in February 1991 or subsequently.

We reject Red Thunder's suggestion that BLM erred by not providing it with "notification that BLM had detern affected historic properties." That conclusion was evident from BLM's decision to proceed without declaring the sites histor taking any of the steps outlined in 36 CFR 800.5 when historic properties are found. Red Thunder has had ample opportuactions in the course of the instant appeal, during which BLM's documentation was made available to it.

Appellant asserts on reconsideration that BLM's efforts to comply with the requirements of AIRFA are independent NHPA (Petition at 5 n.2, 7-8). The sites in question unquestionably had both historic and religious aspects. We find no preventing BLM from using a single decisionmaking process to address both AIRFA and NHPA concerns, provided that procedural

124 IBLA 287F

^{5/} Based on past practice, it appears that the State HPO and BLM had in place a system where BLM requested the State H it informational copies of relevant material.

IBLA 91-186

requirements of both statutes. We have held that BLM complied with AIRFA. <u>Red Thunder I</u>, 117 IBLA at 188-97, 97 I.D. herein that BLM also complied with the procedural requirements of NHPA.

On or around February 20, 1991, the Western Office of Project Review, Advisory Council on Historic Preservation

It has come to our attention that a proposed expansion of the Landusky Mine may affect traditional cultu within the area of potential effects of the mining operation. Based on information provided by Mr. Donald M appears that these properties may be eligible for inclusion in the National Register. If the properties are determine consultation with the State [HPO], then [BLM's] involvement in this project and the nature of the project's elementary National Register property may require your agency to obtain the comments of the Council. The [NHPA] and regulations, 26 CFR Part 800, set forth this responsibility. We urge you not to take irrevocable [action] until the have been addressed.

Please investigate this matter to determine if BLM's involvement in this project requires the comments o

(Petition at App. D p.2). We reiterate that it appears that BLM, having concluded that the religious sites were not in fact Register, simply determined that it was not required to obtain the Council's comments. Red Thunder II, 124 IBLA at 28 800.4(d), BLM is not required to take further steps in the NHPA process when no historic properties are found. It does no has taken issue with BLM's conclusion that the sites identified in the archeologist's report are not historic properties. See 3

Accordingly, pursuant to the authority delegated to the Board of Land Appeals by the Secretary of the Interior,

124 IBLA 287G

IBLA 91-186

4.1, the petition for reconsideration is gr	anted, and the decision is reaffirmed as clarified by this or	der
	David L. Hughes Administrative Judge	_
I concur:	Administrative Judge	
Franklin D. Arness		
Administrative Judge		

IBLA 91-186

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